

# State Energy Data System CSV File Documentation

## Energy Source Tables

*Last Update: 05/11/2006*

The following files contain data included in the State Energy Data System (SEDS) consumption, price, and expenditure tables (formerly the "State Energy Data Report," or SEDR and the "State Energy Price and Expenditure Report" or SEPER) located on EIA's web site at [http://www.eia.doe.gov/emeu/states/\\_seds.html](http://www.eia.doe.gov/emeu/states/_seds.html).

The first record in each file serves as a column heading and contains information about the data in each of the following records. Each data file record that follows begins with the State code (2 digits), followed by the data identifier (5 digits). In the consumption data files, the identifier is followed by 43 data values (from 1960 through 2002) for petroleum consumption or 44 values (from 1960 through 2003) for all other energy sources. In the price and expenditure data files, the identifier is followed by 33 data values (from 1970 through 2002) for petroleum or 34 values (from 1970 through 2003) for all other energy sources. All items are separated by commas. The data are expressed with five decimal places, and explicit decimal points are included in numeric fields. All items are enclosed in quotes, which means some systems will read numeric values as alphanumeric unless they are converted. Each file contains SEDS consumption in physical units (i.e., short tons, barrels, cubic feet, etc.), British thermal units (Btu) and prices in nominal dollars per million Btu and expenditures in million nominal dollars.

There is a file for each energy source data table; in some cases there is one file for two tables such as for distillate fuel where there are too many columns for one table. In addition, this subdirectory contains CSV files that contain data for all States and years. For instance, "use\_pet\_all\_phy.csv" contains the physical unit petroleum data for all States and years; "use\_pet\_all\_btu.csv" contains the Btu petroleum data for all States and years. Likewise, "pr\_pet\_all\_price.csv" contains the price data for all States and years, and "pr\_pet\_all\_expend.csv" contains the expenditure data for all States and years.

The data contained in these files are "full precision" expressed with five decimal places, while the data contained in the PDF and HTML tables are rounded. The decimal place precision reflected in these files is the same as that used in the SEDS and is provided so that users can completely duplicate SEDS calculations; however the precision does not necessarily reflect the statistical accuracy of the numbers. Users should see the sources cited in the SEDS Consumption Technical Notes as well as the SEDS Price and Expenditure Technical Notes for a discussion of estimation methodologies for specific data series.

The data files contain additional data series not shown in the report tables that have frequently been requested by customers. These additional data include the individual "Other Petroleum Products" used in the industrial sector, the breakout of natural gas used as lease and plant fuel, and the breakout of types of jet fuel in the transportation sector. The following appendices explain the data identification codes used in the files.

To fully understand and utilize the data files, customers should read the documentation in the Technical Notes available on the EIA internet site at: [http://www.eia.doe.gov/emeu/states/\\_seds\\_updates\\_tech\\_notes.html](http://www.eia.doe.gov/emeu/states/_seds_updates_tech_notes.html).

Copies of the reports may be obtained from:

National Energy Information Center, EI-30  
Energy Information Administration  
Forrestal Building  
Room 1E-238  
Washington, D.C. 20585  
202-586-8800

The 5-letter data identifier is a SEDS variable name (a Fuel-Sector-Type grouping) defined as follows:

Variable Definitions	
Characters	Identity
<b>1 and 2</b>	Represent an Energy Source (Fuel)
<b>3 and 4</b>	Represent an Energy End-Use Sector (Sector)
<b>5</b>	Represents a Type of Data (Type)
<b>6 and 7</b>	Represent US State Postal Code

Energy Source (Characters 1 and 2)			
Code	Name	Code	Name
<b>AR</b>	Asphalt and road oil	<b>NG</b>	Natural gas
<b>AV</b>	Aviation gasoline	<b>NU</b>	Nuclear electric power
<b>CC</b>	Coal coke	<b>MG</b>	Motor gasoline
<b>CL</b>	Coal	<b>PA</b>	All petroleum products
<b>DF</b>	Distillate fuel	<b>PE</b>	Primary energy, equal to TE in the electric power sector
<b>EN</b>	Ethanol		
<b>ES</b>	Electricity sales	<b>PO</b>	Other petroleum products, subtotal
<b>GE</b>	Geothermal energy	<b>RF</b>	Residual fuel
<b>HY</b>	Hydroelectric power	<b>SO</b>	Solar thermal and photovoltaic energy
<b>JF</b>	Jet fuel	<b>TE</b>	Total energy
<b>KS</b>	Kerosene	<b>TN</b>	Total net energy
<b>LG</b>	Liquefied petroleum gases	<b>WD</b>	Wood
<b>LO</b>	Electrical system energy losses	<b>WW</b>	Wood and waste
<b>LU</b>	Lubricants	<b>WY</b>	Wind

The following codes represent the end-use sectors:

Energy End-Use Sectors (Characters 3 and 4)			
Code	Name	Code	Name
<b>AC</b>	Transportation sector	<b>HC</b>	Residential and commercial sectors combined
<b>CC</b>	Commercial sector	<b>IC</b>	Industrial sector
<b>EI</b>	Electric power sector, fuel consumption	<b>IM</b>	Imports
<b>EG</b>	Electric power sector, net generation	<b>RC</b>	Residential sector
<b>ET</b>	Total net generation	<b>TC</b>	Total of all sectors
<b>EX</b>	Exports		

Unit and scale of measurement for Type P data vary and are listed in Appendix A of the SEDS Consumption Technical Notes.

Types (Character 5)	
Code	Name
<b>B</b>	Data in billion British thermal units (Btu)
<b>P</b>	Data in physical units (e.g. barrels, cubic feet, short tons, kilowatthours)
<b>D</b>	Price in Nominal Dollars per Btu

V	Expenditures in Million Nominal Dollars
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The following section lists the SEDS variables in the order they appear in the Energy Source tables. Each table column contains one variable.

Table F1: Motor Gasoline Consumption, Price, and Expenditure Estimates by Sector						
MGCCP	MGICP	MGACP	MGTCP	MGCCB	MGICB	MGACB
MGTCB	MGTCB	MGCCV	MGICV	MGACV	MGTCV	

Table F2: Aviation Gasoline and Jet Fuel Consumption, Price, and Expenditure Estimates by Sector							
AVTCP	AVTCB	AVTCD	AVTCV	JFTCP	JFTCB	JFTCD	JFTCV

Table F3a: Distillate Consumption Estimates by Sector					
DFRCP	DFCCP	DFICP	DFACP	DFEIP	DFTCP
DFRCB	DFCCB	DFICB	DFACB	DFEIB	DFTCB

Table F3b: Distillate Price and Expenditure Estimates by Sector					
DFRCD	DFCCD	DFICD	DFACD	DFEID	DFTCD
DFRCV	DFCCV	DFICV	DFACV	DFEIV	DFTCV

Table F4: Residual Fuel Consumption, Price, and Expenditure Estimates by Sector									
RFCCP	RFICP	RFACP	RFEIP	RFTCP	RFCCB	RFICB	RFACB	RFEIB	RFTCB
RFCCD	RFICD	RFACD	RFEID	RFTCD	RFCCV	RFICV	RFACV	RFEIV	RFTCV

Table F5: Kerosene Consumption, Price, and Expenditure Estimates by Sector							
KSRCP	KSCCP	KSICP	KSTCP	KSRCB	KSCCB	KSICB	KSTCB
KSRCV	KSCCV	KSICV	KSTCV				

Table F6: Liquefied Petroleum Gases Consumption, Price, and Expenditure Estimates by Sector									
LGRCP	LGCCP	LGICP	LGACP	LGTCP	LGRCB	LGCCB	LGICB	LGACB	LGTCB
LGRCD	LGCCD	LGICD	LGACD	LGTCV	LGRCV	LGCCV	LGICV	LGACV	LGTCV

Table F7: Lubricants Consumption, Price, and Expenditure Estimates by Sector					
LUICP	LUACP	LUTCP	LUICB	LUACB	LUTCB
LUTCD	LUICV	LUACV	LUTCV		

Table F8: Asphalt and Road Oil and Other Petroleum Products Consumption, Price, and Expenditure Estimates by Sector								
ARTCP	ARTCB	ARTCD	ARTCV	POTCP	POTCB	POTCD	POTCV	

Table F9a: Total Petroleum Consumption Estimates by Sector					
PARCP	PACCP	PAICP	PAACP	PAEIP	PATCP
PARCB	PACCB	PAICB	PAACB	PAEIB	PATCB

Table F9b: Total Petroleum Price and Expenditure Estimates by Sector					
PARCD	PACCD	PAICD	PAACD	PAEID	PATCD

PARCV	PACCV	PAICV	PAACV	PAEIV	PATCV
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Table F10a: Natural Gas Consumption Estimates by Sector					
NGRCP	NGCCP	NGICP	NGACP	NGEIP	NGTCP
NGRCB	NGCCB	NGICB	NGACB	NGEIB	NGTCB

Table F10b: Natural Gas Price and Expenditure Estimates by Sector					
NGRCD	NGCCD	NGICD	NGACD	NGEID	NGTCD
NGRCV	NGCCV	NGICV	NGACV	NGEIV	NGTCV

Table F11: Electricity Consumption, Price, and Expenditure Estimates by Sector									
ESRCP	ESCCP	ESICP	ESACP	ESTCP	ESRCB	ESCCB	ESICB	ESACB	ESTCB
ESRCD	ESCCD	ESICD	ESACD	ESTCD	ESRCV	ESCCV	ESICV	ESACV	ESTCV

Table F12a: Coal and Coal Coke Consumption Estimates by Sector						
CLRCP	CLCCP	CLICP	CLEIP	CLTCP	CCIMPUS	CCEXPUS
CLRCB	CLCCB	CLICB	CLEIB	CLTCB	CCIMBUS	CCEXBUS

Table F12a: Coal and Coal Coke Price and Expenditure Estimates by Sector						
CLRCD	CLCCD	CLICD	CLEID	CLTCD	CCIMDUS	CCEXDUS
CLRCV	CLCCV	CLICV	CLEIV	CLTCV	CCIMVUS	CCEXVUS

Table F13a: Biomass Consumption Estimates by Sector			
WDRCP	WWCCB	WWEIB	ENACP
WDRCB	WWICB	WWTCB	ENACB

Table F13b: Biomass Price and Expenditure Estimates by Sector			
WWICD	WWTCD	WWCCV	WWEIV
WWEID	WDRCV	WWICV	WWTCV

Table F14: Hydroelectric and Geothermal Consumption Estimates by Sector						
HYCCP	HYICP	HYEGP	HYTCP	HYCCB	HYICB	HYEGB
HYTCB	GETCB	GEEGP	GERCB	GECCB	GEICB	GEEGB

Table F15: Solar and Wind Consumption Estimates by Sector							
SOEGP	SOHCB	SOEGB	SOTCB	WNEGP	WYTCP	WYEGB	WYTCB

Table F16: Nuclear Consumption, Price, and Expenditure Estimates by Sector			
NUETP	NUETB	NUETD	NUETV

Table F17: Net Energy, Electricity Losses, and Total Energy Consumption Estimates by Sector						
TNRCB	TNCCB	TNICB	TNACB	TNTCB	LORCP	LOCCP
LOICP	LOACP	LOTCP	LORCB	LOCCB	LOICB	LOACB

LOTCB	TERCB	TECCB	TEICB	TEACB	TEEIB	TETCB
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Table F18: Total Energy Consumption, Price, and Expenditure Estimates by Sector								
TERCB	TECCB	TEICB	TEACB	TEEIB	TETCB	TERCD	TECCD	TEICD
TEACD	PEEID	TETCD	TERCV	TECCV	TEICV	TEACV	PEEIV	TETCV